

CLAIMS

1. Syringe block (1), in particular adapted to be used in an automatic liquid-sample analysis machine (10), said block comprising several syringes 5 (11-16) and a collector (3), each syringe comprising a casing and a piston (21-26) which between them define an internal volume, said collector comprising electronic switch valves (31), first ducts (5) linking the electronic switch valves direct to the respective internal volumes and second ducts (6) extending from the electronic switch valves in particular in the direction of respective 10 containers for the sample and/or other liquids (41-44), the syringes comprising an air pump (15,16), said air pump comprising at least a syringe (15,16), characterized in that the pistons of all the syringes are rigidly linked to each other such that they simultaneously carry out a single movement (M) inside their respective casings.
- 15 2. Syringe block according to claim 1, characterized in that the air pump comprises at least two syringes (15,16).
- 20 3. Syringe block according to claim 1 or 2, characterized in that the collector comprises one or more pieces (8) in which the first and/or second ducts are realized, in particular by moulding or machining.
- 25 4. Syringe block according to one of claims 1 to 3, characterized in that the air pump is used to create a depression for the taking of a sample with a view to a counting step during an analysis in an automatic analysis machine.
5. Syringe block according to one of claims 1 to 4, characterized in that the air pump is used for the removal of waste (44), in particular in an automatic analysis machine when an analysis is finished.

6. Syringe block according to one of claims 1 to 5, characterized in that it comprises at least one dilution chamber, which may be fixed on the collector and/or linked direct to a respective electronic switch valve by a duct among the second ducts.

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7. Syringe block according to one of claims 1 to 6, characterized in that it comprises at least a measurement chamber, which may be fixed on the collector and/or linked direct to a respective electronic switch valve by a duct among the second ducts.

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8. Syringe block according to one of claims 1 to 7, characterized in that it comprises at least an incubation chamber, which may be fixed on the collector and/or linked direct to a respective electronic switch valve by a duct among the second ducts.

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9. Syringe block according to one of claims 1 to 8, characterized in that it comprises at least a hydraulic circulation vessel, which may be fixed on the collector and/or linked direct to a respective electronic switch valve by a duct among the second ducts.

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10. Syringe block according to one of claims 1 to 9, characterized in that it comprises at least an optical bench (51), which may be fixed on the collector and/or linked direct to a respective electronic switch valve by a duct among the second ducts.

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11. Syringe block according to one of claims 1 to 10, characterized in that it comprises at least a card (54) carrying electronic circuits, said electronic circuits being used in the analysis when said block is used in an automatic analysis machine, said card being able to be fixed on the collector.

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12. Syringe block according to one of claims 1 to 11, characterized in that it is placed in an air-conditioned enclosure.

13. Automatic analysis machine (10), in particular an automatic blood-analysis machine comprising a syringe block (1) according to one of claims 1 to 12.